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Minghui Yang, Gang-Ryung Uh, David B. Whalley
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Publisher: ACM Press

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The conditional branch has long been considered an expensive operation. The relative cost of conditional branches has increased as recently designed machines are now relying on deeper pipelines and higher multiple issue. Reducing the number of conditional branches executed can often result in a substantial performance benefit. This paper describes a code-improving transformation to reorder sequences of conditional branches. First, sequences of branches that can be reordered are detected in the c ...

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Minghui Yang, Gang-Ryung Uh, David B. Whalley
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The conditional branch has long been considered an expensive operation. The relative cost of conditional branches has increased as recently designed machines are now relying on deeper pipelines and higher multiple issue. Reducing the number of conditional branches executed often results in a substantial performance benefit. This paper describes a code-improving transformation to reorder sequences of conditional branches that compare a common variable to constants. The goal is to obtain an orderi ...

Keywords: Conditional branches, branch reordering, profiling

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2.1 Conditional **Statements**. 2.1.1 IF/**THEN/ELSE**/END; 2.1.2 IFT/IFTE ... **THEN** "Beta"
ELSE IF DUP "G" == **THEN** "Gamma" **ELSE** "Unknown letter" END END END **SWAP** ...
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For example, consider the following script file, say named **Swap**:. #! /bin/csh -f ... **then-else**;
while), iterative execution (for loop), a switch **statement**, ...
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Content-Type: text/plain; charset=us-ascii Content-Language: en ...
2+ DUP @ BEGIN ?DUP WHILE DUP @ HERE ROT ! REPEAT HERE **SWAP** ! ; : CHAIN
(n - a) FIND LENGTH 0< IF @ **ELSE** DUP @ HERE ROT ! **THEN** ; : **STATEMENT** (n --)
HERE ...
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Section 5
The critical element here is the **THEN statement**. ... FLOOR "Average = " OVER +
MSGBOX IF DUP 200 < **THEN** 200 **SWAP** - .8 * FLOOR **ELSE** DROP 0 END "New
handicap ...
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Code blocks are also used within if/**else statements** if multiple **statements** ... code block, if
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2. if b is less than a, **swap** a and b. 3. if c is less than b ... Boolean. Expression. **Then**
Statement. **Else Statement**. The rest of the program ...
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